

WELL LOG BUREAU - KANSAS GEOLOGICAL SOCIETY
 508 East Murdock, Wichita, Kansas

Company- THE DERBY OIL COMPANY
 Farm- Liljestrand No. 4

SEC. 35 T. 15 R. 4W
 C W/2 E/2 SE
 990' fr EL, 1320' fr SL

Total Depth. 3442
 Comm. 6-29-54 Comp. 7-24-54
 Shot or Treated.
 Contractor. Shields Drlg.- Cable-Wood & Hay
 Issued. 12-11-54

County Saline
 KANSAS



CASING:
 8 5/8" 346' com. w/250 sx
 5 1/2" 3439' com. w/100 sx

Elevation. 1324 DE.

Production. 50: BO / 50% wtr/
 24 hrs.

Figures indicate Bottom of Formations.

All measurements are from Kelly Bushing which is 7' above braden head

surface clay	20
sand	45
blue shale	85
shale & shells	335
Anhydrite	390
lime	475
lime & shale	1210
shale & salt	1450
shale	1645
lime & shale	2145
lime	2275
lime & shale	2455
lime	2505
shale & lime	2714
lime	2914
lime & shale	3028
lime	3132
lime & shale	3224
shale & lime streaks	3282
lime & shale	3330
shale	3439
Maquoketa dolomite	3440 RTD
dolomite	3442
Total depth	

On vacuum in 2 minutes after pump shut down. Swab recover back @ 10 BFPH off bottom. 8 hr. swab test: 18.75 BO / 33.75 BW. POP. Pump test, 7-29-54: 23 BO / 40 BW, 18 spm, 48" stroke, 8 hrs.

Geological Tops:
 Mississippi 2914
 Kinderhook 3212
 Maquoketa Dolomite 3437

Remarks:
 7-18-54, 300 gals, 500#
 7-21-54, 2000 gals., 1125#
 7-23-54, 1500 gal,
 / 3000# sand, 1150#.
 Clean out to RTD 3440. 7 hr. swab test: 6BO plus 4.32 BW. Treated w/300 acid. Max. press. 500#, min. press. 350#, on vacuum 1" after pump shut down. 6 hr. swab test after load back average 2.81 BFPH (1.56 oil / 1.25 wtr.) DD 3440-42. Bailer would not go below 3440, bottom of shoe broken off. Cleaned out to 3441 1/2. 7 hr. swab test: 14.5 BO / 10.35 BW. Treated w/2000 gal. acid. Max. press. 1125#, broke to 250#, on vacuum when pump shut down. 14 hr. swab test off bottom: 66 BF 25 BO / 41 BW. Lacked 11 bbl. having rec. back. 7 hr. swab test off bottom: 1 BOPH / 3 1/2 BFPH. Treated w/1500 gal. gel, 15% acid and 3000# sand. Max. press. 1150#, finished on 200#. Pump rate, 14 bbls/ min.